

# Installing Natural Security 5.1.1 under OpenVMS

This section describes how to install Natural Security under OpenVMS on an AXP computer. It covers the following topics:

- Before You Start
- Installing Software AG Products from CD-ROM under OpenVMS
- Installing and Setting up Natural Security
- After the Installation Procedure

See also:

- General Installation Information about Natural Security
  - Natural Security in a Heterogeneous Environment
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## Before You Start

Before you begin to install Natural Security, ensure that your computer meets the installation prerequisites described below. This section covers the following topics:

- Installation Prerequisites
- Installing Natural Security in a Cluster Environment
- Naming Conventions
- Logical Name Assignments
- Recommended Directory Structure

## Installation Prerequisites

### Software

Before you begin to install Natural Security under OpenVMS, the following software must be installed and running:

- Natural Version 5.1.1
- OpenVMS Version 7.2 or above,
- Adabas Version 4.1,
- Sagbase Version 1.2.3 (only if you install Sagbase with this version),
- Entire Net-Work 3.2.3 (only required if FSEC is located remotely),

### Disk Space

The space required on disk will be checked by the PCSI utility during the installation.

## Installing Natural Security in a Cluster Environment

If you install Natural Security in a cluster environment, you have to install it on each node in the cluster environment.

### Note:

Sagbase must be installed on each node on which Natural Security is to be installed.

### Initial Installation in a Cluster Environment

Depending on how Sagbase has been installed, the initial Natural Security installation within a cluster will choose either the common or the specific root directory. The installation procedure checks if there is already an existing Natural Security installation in the cluster.

### Update Installations in a Cluster Environment

During an update installation the values of the system parameters are automatically checked.

## Naming Conventions

The following notations are used in the names of files and directories:

Notation	Description
product	product name or short product name (PPP)
v	version number
r	release number
s	system maintenance level
p	patch level
os	operating system short name

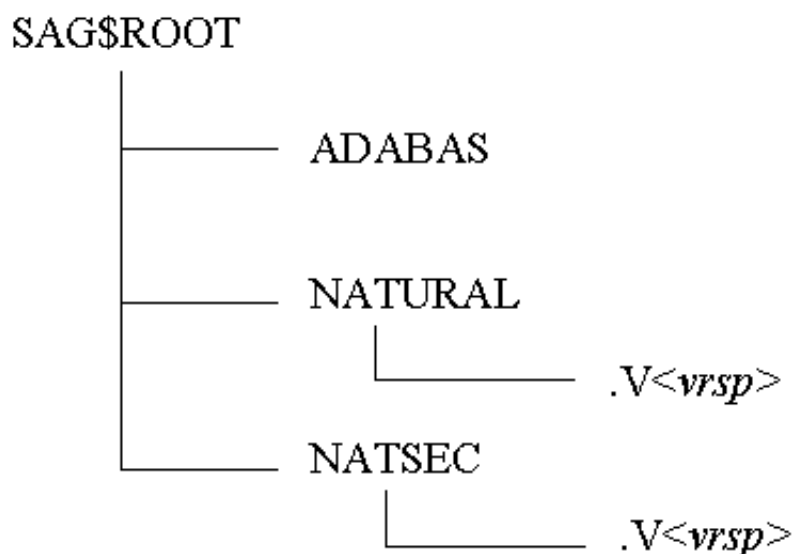
## Logical Name Assignments

Natural Security uses the following logical name assignment:

Logical Name	Directory
NATSEC	NATBIN:NATSEC <i>vrsp</i> .EXE

## Recommended Directory Structure

Software AG recommends the following directory structure for its products under OpenVMS:



## Installing and Setting Up Natural Security

This section covers the following topics:

- Overview of the Installation Procedure
- PCSI Installation Procedure

## Overview of the Installation Procedure

The Natural Security installation procedure performs the following steps:

- Checks which OpenVMS version is running.
- Temporarily sets the privileges (BYPASS, CMKRNL, SYSNAM).
- Checks whether Sagbase is installed.
- Modifies DBA account, if required.
- Registers product Sagbase to PCSI, if required.
- Calculates and verifies the disk space needed for the installation on both the work-directory device and the installation device.
- Checks whether Natural is installed.
- Checks whether Adabas is installed.
- Creates the directories SAG\$ROOT:[NATSEC] and SAG\$ROOT:[NATSEC.Vnnnp].
- Moves all files and images to the appropriate directories.
- Sets protections for files and directories.
- Creates the patch level file in the version subdirectory of the Natural Security directory (in this version, "V511p")

**Note:** Patch level files are for internal use and should not be modified or deleted. They are used for other installations.

## PCSI Installation Procedure

Before you start installing Natural Security using the PCSI procedure, read Installing and Setting up Software AG products for OpenVMS and see the information described in the section Before You Start.

You started the installation using the command procedure SETUP.COM located on CD to install Natural in the OpenVMS environment.

SETUP.COM copies the Natural PSC file from the CD to the SAG\$ROOT:[CDINST] directory and starts the Polycenter Software Installation utility (PCSI). During the installation procedure, a number of general information messages are displayed. Read all messages carefully and follow any advice they may provide.

### Continue the PCSI installation

The following messages are displayed during the installation process:

```
The following product has been selected:
SAG AXPVMS NSC_vrsp Vv.rs-PLp Layered Product [Installed]
```

```
Do you want to continue? [YES]
Answer: yes
```

The installation procedure checks if the product SAGBASE (GBA) has already been installed and registered with the PCSI utility. If GBA has been installed but not yet registered, you will be asked to do so. Register by following the instructions on the screen.

If the SAGBASE software has not been found on your system the installation aborts.

The installation procedure checks if the product prerequisites Natural and Adabas has already been installed and registered with the PCSI utility.

## Modify the PCSI options

Do you want the defaults for all options? [YES]

Answer "no" to modify the options.

Print READ\_ME\_FIRST.TXT (SYS\$PRINT)?

Answer is optional (yes or no)

Are you satisfied with these options ?

Answer is optional (yes or no).

The procedure now installs Natural Security to the destination directory.

After a successful installation, the PCSI utility displays the message:

The following product has been installed:

SAG AXPVMS NSC\_vrsp Vv.rs-PLp Layered Product

## After the Installation Procedure

This section covers the following topics:

- Verifying the Installation Procedure
- Initial Installation
- Update Installation

## Verifying the Installation Procedure

To verify the product entry in the PCSI database enter:

```
$ PRODUCT SHOW PRODUCT NSC_<vrsp>
```

## Initial Installation

The following sections are only relevant if this is your first version of Natural Security.

1. Make sure that Natural Version *nnn* (where *nnn* must be the same version as the Natural Security Version *nnn* you are installing) is installed on your OpenVMS system.
2. Make sure that the Adabas database is running.
3. Enter the following command to start the installation procedure:

```
$ @SAGINST_NSC.COM
```

A menu is displayed providing several functions.

4. Perform each of the functions.

### Note for the "Specify the FSEC profile parameter in the parameter file" function:

When you choose this function, the Natural Parameter Setting screen for the current parameter file appears. Using the Edit option, enter the same DBID and FNR for FSEC that you specified in functions 1 and 2 respectively. For further information, refer to the section NATPARM Utility.

### Note for the "Add FSEC definition to NATCONF.CFG" function:

For Natural Security to run, the section [NAT-DB-TABLE] in the Natural global configuration file NATCONF.CFG must contain the following sub-section:

```

###Natural FSEC Definition
  [ DBID_xxx]
  GEN = ADA
  EXE = ADA
  [ DBID_xxx-END ]

```

where *xxx* is the number of the database which contains FSEC.

If this sub section is missing (because NATCONF.CFG was modified using the NATPARM Utility), add it, and if it is present, edit it accordingly.

Natural Security is now installed and operational.

## Change the Password of the User "DBA"

1. Invoke Natural.
2. On the Natural Security logon screen, type in the library ID "SYSSEC", the user ID "DBA", the password "DBA", and a new password, and press ENTER.
3. Type the new password again and press ENTER to confirm the password change.

## Define Administrators

Define the administrators immediately after successfully installing Natural Security.

1. Create a user security profile for each person who is to be a Natural Security administrator.
2. Link each Natural Security administrator to the library SYSSEC.

The following is an *example* of how to do this.

- On the logon screen, type the library ID "SYSSEC", the user ID "DBA" and the password as established before.
- The Natural Security Main Menu is displayed. On this menu, enter the code "M".
- A window is displayed. In this window, mark the object type "User" with a character or with the cursor.
- The User Maintenance selection list is displayed. In the command line of the User Maintenance selection list, enter the command "ADD".
- A window is displayed. Choose a user ID for your Natural Security administrator (for example, if the administrators name were Arthur Dent, you could choose "AD" as his user ID; the following steps will take this as an example). In the window, enter the user ID "AD" and the user type "A".
- The Add User screen is displayed. Enter the user name "Arthur Dent" and set Private Library to "N" (and press ENTER).
- Press PF3. The user Arthur Dent is now defined to Natural Security under the user ID "AD".
- The User Maintenance selection list is displayed again. In the "Co" column of the selection list, mark the user "AD" with the function code "LL".
- A window is displayed. In the window, enter the library ID "SYSSEC".
- The Link User To Libraries selection list is displayed. In the "Co" column of the selection list, mark the library "SYSSEC" with the function code "LK". The user Arthur Dent is now linked to library SYSSEC.
- In the command line, enter the direct command "LOGOFF". The Natural Security logon screen is displayed.

Now you can log on to SYSSEC with the user ID "AD" and the password "AD". When you log on with the new user ID for the first time, you must change the password (by typing in a new password in addition to the user ID and password).

### Note:

Once you have successfully defined administrators, it may be advisable to delete the user DBA to make sure that the user ID "DBA" cannot be used by unauthorized users to gain access to SYSSEC. To delete the user DBA, log on to SYSSEC with the user ID "AD". Go to the User Maintenance selection list as described above; on the list, mark the user "DBA" with the function code "DE". A window is displayed, in which you enter the user ID "DBA". The user DBA is now deleted.

## Define System Libraries

You must now create security profiles for all system libraries of Natural and Natural subproducts installed at your site. It is recommended that you create the security profiles automatically, using the function "Definition of System Libraries" as described below.

System library IDs begin with "SYS".

1. Log on to the library "SYSSEC".
2. On the Natural Security Main Menu, select "Administrator Services".
3. On the Administrator Services Menu, select the function "Definition of System Libraries".
4. A list of the system libraries of Natural and all Natural subproducts installed at your site is displayed. For each system library, a library-specific security profile is provided in which all the necessary components are already defined appropriately.
5. Either mark on the list individual libraries to which their predefined profiles should be applied or choose to have the predefined profiles applied to all system libraries simultaneously.

### Notes:

This should **not** be performed for SYS libraries containing Natural utilities, as it is recommended that these utilities be protected as described in the section "Protecting Natural Utilities".

If you use the function "Definition of System Libraries" in an initial installation, you have to set the Natural profile parameter MADIO to the value "0". The default value is "2000".

Other Software AG products such as Predict and Connect have their own security functions in addition to Natural Security.

## Update Installation

The following sections are only relevant if this is **not** your first version of Natural Security.

1. Before you proceed, make sure that Natural Version *nnn* (where *nnn* must be the same version as the Natural Security Version *nnn* you are installing) is installed on your OpenVMS system.
2. Make sure Adabas is running.
3. Enter the following command to start the installation procedure:

```
$ @SAGINST_NSC.COM
```

A menu is displayed providing several functions.

4. Perform each of the functions *except* Function 2, as described for initial installation.  
In Functions 3 and 4, enter the DBID and FNR of your existing FSEC system file, as a new FSEC system file is not loaded.

Natural Security is now installed and operational.

